

## ABSTRACT OF THE DISCLOSURE

[0032] A receiver 30 has an adjustable gain control circuit 32 that provides gain control base on the magnitude of the signal at the input of an analog-to-digital converter 22. The magnitude of a gain increase or decrease can be based  
5 on the most significant bits of the analog-to-digital output, indicating whether the analog-to-digital converter is close to saturation, approaching saturation, or well below saturation.